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¹ A methodology for testing spreadsheets

Gregg Rothermel, Margaret Burnett, Lixin Li, Christopher Dupuis, Andrei Sheretov
January 2001 **ACM Transactions on Software Engineering and Methodology (TOSEM)**,
Volume 10 Issue 1

Full text available: ▦ pdf(353.65 KB)   Additional Information: full citation, abstract, references, citings, index terms

Spreadsheet languages, which include commercial spreadsheets and various research systems, have had a substantial impact on end-user computing. Research shows, however, that spreadsheets often contain faults; thus, we would like to provide at least some of the benefits of formal testing methodologies to the creators of spreadsheets. This article presents a testing methodology that adapts data flow adequacy criteria and coverage monitoring to the task of testing spreadsheets. To accommodate ...

Keywords: software testing, spreadsheets

² Answering English questions by computer: a survey

R. F. Simmons
January 1965 **Communications of the ACM**, Volume 8 Issue 1

Full text available: ▦ pdf(2.79 MB)   Additional Information: full citation, references, citings, index terms

³ Real-time software-based video coder for multimedia communication systems

Ho Chao Huang, Jau-Hsiung Huang, Ja-Ling Wu
September 1993 **Proceedings of the first ACM international conference on Multimedia**

Full text available: ▦ pdf(119.60 KB)
▦ .ps(190.28 KB)   Additional Information: full citation, references, index terms

Keywords: multimedia system, software-based video compression, video data compression, video phone/conference

⁴ An experiment in software engineering: The Architecture Research Facility as a case study

Honey S. Elovitz
September 1979 **Proceedings of the 4th international conference on Software**

engineering

Full text available: 📄.pdf(772.23 KB)   Additional Information: full citation, abstract, references, index terms

Software developers often complain that researchers in the field of software engineering propose new ideas without testing these ideas in practical applications. The Architecture Research Facility (ARF) was developed utilizing several software engineering techniques in order to discover their usefulness in actual software system developments. Such techniques as the complete design and documentation of the individual components and interfaces prior to coding, design reviews, code specificati ...

5 Reinventing the familiar: exploring an augmented reality design space for air traffic control
Wendy E. Mackay, Anne-Laure Fayard, Laurent Frobert, Lionel Médini
January 1998 **Proceedings of the SIGCHI conference on Human factors in computing systems**
Full text available: 📄 pdf(1.14 MB)   Additional Information: full citation, references, citings, index terms

Keywords: augmented reality, design space, interactive paper, participatory design, video prototyping

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1 A methodology for testing spreadsheets
Gregg Rothermel, Margaret Burnett, Lixin Li, Christopher Dupuis, Andrei Sheretov
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Keywords: software testing, spreadsheets

2 Session 4: big stuff: Out-of-core construction and visualization of multiresolution surfaces
Peter Lindstrom
April 2003 **Proceedings of the 2003 symposium on Interactive 3D graphics**

Full text available: 🔲 pdf(5.13 MB)   Additional Information: full citation, abstract, references, citings, index terms

We present a method for end-to-end out-of-core simplification and view-dependent visualization of large surfaces. The method consists of three phases: (1) memory insensitive simplification; (2) memory insensitive construction of a multiresolution hierarchy; and (3) run-time, output-sensitive, view-dependent rendering and navigation of the mesh. The first two off-line phases are performed entirely on disk, and use only a small, constant amount of memory, whereas the run-time system pages in only ...

Keywords: large-data visualization, out-of-core algorithms, surface simplification, view-dependent refinement

3 Interactive Editing Systems: Part II
Norman Meyrowitz, Andries van Dam
September 1982 **ACM Computing Surveys (CSUR)**, Volume 14 Issue 3

Full text available: 🔲 pdf(9.17 MB)   Additional Information: full citation, references, citings, index terms

4 Data base directions: the next steps
John L. Berg
November 1976 , Volume 8 , 8 Issue 4 , 2

Full text available: 📄 pdf(9.95 MB)   Additional Information: full citation, abstract

What information about data base technology does a manager need to make prudent decisions about using this new technology? To provide this information the National Bureau of Standards and the Association for Computing Machinery established a workshop of approximately 80 experts in five major subject areas. The five subject areas were auditing, evolving technology, government regulations, standards, and user experience. Each area prepared a report contained in these proceedings. The proceedings p ...

Keywords: DBMS, auditing, cost/benefit analysis, data base, data base management, government regulation, management objectives, privacy, security, standards, technology assessment, user experience

5 Expression optimization using unary complement operators
Dennis J. Frailey
July 1970 **ACM SIGPLAN Notices , Proceedings of a symposium on Compiler optimization,** Volume 5 Issue 7

Full text available: 📄 pdf(958.10 KB)   Additional Information: full citation, abstract, references, citings, index terms

For purposes of code optimization there are two basic philosophies of expression analysis: one approach would attempt to do a relatively complete analysis, detecting all redundancies which are logically possible. The other approach would aim at those things which are easily detected and/or highly likely to occur. This paper gives a set of algorithms which derive from the latter philosophy but which are based on general properties rather than specific facts about a particular language or mac ...

6 Face recognition: A literature survey
W. Zhao, R. Chellappa, P. J. Phillips, A. Rosenfeld
December 2003 **ACM Computing Surveys (CSUR)**, Volume 35 Issue 4

Full text available: 📄 pdf(4.28 MB)   Additional Information: full citation, abstract, references, citings, index terms

As one of the most successful applications of image analysis and understanding, face recognition has recently received significant attention, especially during the past several years. At least two reasons account for this trend: the first is the wide range of commercial and law enforcement applications, and the second is the availability of feasible technologies after 30 years of research. Even though current machine recognition systems have reached a certain level of maturity, their success is ...

Keywords: Face recognition, person identification

7 A VLIW architecture for a trace scheduling compiler
Robert P. Colwell, Robert P. Nix, John J. O'Donnell, David B. Papworth, Paul K. Rodman
October 1987 **Proceedings of the second international conference on Architectual support for programming languages and operating systems**, Volume 15 , 22 , 21 Issue 5 , 10 , 4

Full text available: 📄 pdf(1.59 MB)   Additional Information: full citation, abstract, references, citings, index terms

Very Long Instruction Word (VLIW) architectures were promised to deliver far more than the factor of two or three that current architectures achieve from overlapped execution. Using a new type of compiler which compacts ordinary sequential code into long instruction words, a VLIW machine was expected to provide from ten to thirty times the performance

of a more conventional machine built of the same implementation technology.Multiflow Computer, Inc., has now built a VLIW called the TRACE™< ...

8 Real-time software-based video coder for multimedia communication systems

Ho Chao Huang, Jau-Hsiung Huang, Ja-Ling Wu

September 1993 **Proceedings of the first ACM international conference on Multimedia**

Full text available: pdf(119.60 KB)
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Keywords: multimedia system, software-based video compression, video data compression, video phone/conference

9 Models of translational equivalence among words

I. Dan Melamed

June 2000 **Computational Linguistics**, Volume 26 Issue 2

Full text available: pdf(1.89 MB)   Additional Information: full citation, abstract, references, citings
Publisher Site

Parallel texts (bitexts) have properties that distinguish them from other kinds of parallel data. First, most words translate to only one other word. Second, bitext correspondence is typically only partial---many words in each text have no clear equivalent in the other text. This article presents methods for biasing statistical translation models to reflect these properties. Evaluation with respect to independent human judgments has confirmed that translation models biased in this fashion are si ...

10 Personal distributed computing: the Alto and Ethernet software

Butler Lampson

January 1986 **Proceedings of the ACM Conference on The history of personal workstations**

Full text available: pdf(3.00 MB)   Additional Information: full citation, abstract, references, citings, index terms

The personal distributed computing system based on the Alto and the Ethernet was a major effort to make computers help people to think and communicate. The paper describes the complex and diverse collection of software that was built to pursue this goal, ranging from operating systems, programming environments, and communications software to printing and file servers, user interfaces, and applications such as editors, illustrators, and mail systems.

11 Linearity and the pi-calculus

Naoki Kobayashi, Benjamin C. Pierce, David N. Turner

September 1999 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 21 Issue 5

Full text available: pdf(402.81 KB)   Additional Information: full citation, abstract, references, citings, index terms

The economy and flexibility of the pi-calculus make it an attractive object of theoretical study and a clean basis for concurrent language design and implementation. However, such generality has a cost: encoding higher-level features like functional computation in pi-calculus throws away potentially useful information. We show how a linear type system can be used to recover important static information about a process's behavior. In particular, we can guarantee that two processes communicat ...

Keywords: concurrency, confluence, linear types, pi-calculus, process calculi

12 Linearity and the pi-calculus

Naoki Kobayashi, Benjamin C. Pierce, David N. Turner

January 1996 **Proceedings of the 23rd ACM SIGPLAN-SIGACT symposium on Principles of programming languages**

Full text available: pdf(1.53 MB)   Additional Information: full citation, references, citings, index terms

13 Managing change on the web

Luis Francisco-Revilla, Frank Shipman, Richard Furuta, Unmil Karadkar, Avital Arora

January 2001 **Proceedings of the 1st ACM/IEEE-CS joint conference on Digital libraries**

Full text available: pdf(274.89 KB)   Additional Information: full citation, abstract, references, citings, index terms

Increasingly, digital libraries are being defined that collect pointers to World-Wide Web based resources rather than hold the resources themselves. Maintaining these collections is challenging due to distributed document ownership and high fluidity. Typically a collections maintainer has to assess the relevance of changes with little system aid. In this paper, we describe the Waldens Paths Path Manager, which assists a maintainer in discovering when relevant changes occur to linked resour ...

Keywords: Walden's path, path maintenance

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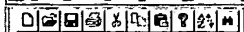
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